

PATENT ABSTRACTS OF JAPAN

(11) Publication number : 63-139246
 (43) Date of publication of application : 11. 06. 1988

(51) Int. Cl. G01N 27/30
 G01N 27/46

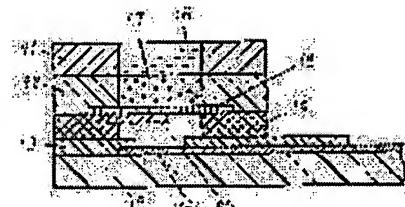
(21) Application number : 61-286339 (71) Applicant : MATSUSHITA ELECTRIC IND CO LTD
 (22) Date of filing : 01. 12. 1986 (72) Inventor : MORIGAKI KENICHI
 KOBAYASHI SHIGEO
 SUETSUGU SACHIKO
 KOMATSU KIYOMI
 NANKAI SHIRO
 SUGIHARA HIROKAZU

(54) BIOSENSOR

(57) Abstract:

PURPOSE: To accurately measure even a very small amount of a specimen solution with good reproducibility, by providing an adhesive structure having a definite height within a range of 0.05W0.5mm to an electrode part.

CONSTITUTION: An adhesive structure 19 forming a space part for holding a liquid and having a definite height in a range of 0.05W0.5mm is used on an electrode part formed by providing an electrode system consisting of at least a measuring electrode 14 and an opposed electrode on an insulating substrate 12. By this constitution, a hydrophilic protective material 20 for guiding the liquid to the electrode part and an upper measuring chip are held in close contact. A liquid obtained by reacting a specimen solution, enzyme and a conjugated electron acceptor passes through a filter membrane 18 to remove the macromolecular substance therein while the filtered liquid is absorbed by a liquid holding material 20 through a capillary phenomenon. When the height of the structure is within a range of 0.05W0.5mm, the liquid can be smoothly supplied to the electrodes from the liquid holding material 20 having the liquid absorbed thereby. When the height of the structure is definite, the thickness of the liquid film layer on the electrodes easily becomes definite. Therefore, even a small amount of the specimen solution can be accurately measured with good reproducibility.



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[Date of request for examination]
[Date of sending the examiner's decision of rejection]
[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]
[Date of final disposal for application]
[Patent number]
[Date of registration]
[Number of appeal against examiner's decision of rejection]
[Date of requesting appeal against examiner's decision of rejection]
[Date of extinction of right]